

Scott M. Matheson  
Governor



STATE OF UTAH  
DEPARTMENT OF HEALTH  
DIVISION OF ENVIRONMENTAL HEALTH

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Executive Director  
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DIVISIONS

Community Health Services  
Environmental Health  
Family Health Services  
Health Care Financing  
and Standards

OFFICES

Administrative Services  
Health Planning and  
Policy Development  
Medical Examiner  
State Health Laboratory

Dean Roberts  
Environmental Specialist  
Energy Fuels Nuclear Inc.  
P.O. Box 787  
Blanding, UT 84511

RE: Sahara Mine Wastewater Treatment

Dear Mr. Roberts:

The plans and information for the Energy Fuels Sahara mine drainage treatment in Emery County have been reviewed by this office. The surface facility plan, pond design, engineering calculations and chemical analysis information submitted June 26, 1979 and January 21, 1980 were reviewed.

As a result of our review, the plans for the Sahara mine radium wastewater treatment are approved and a construction permit issued provided:

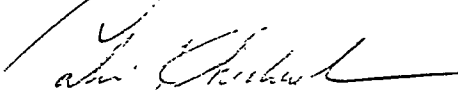
1. Appropriate warning signs are provided.
2. Stock must be excluded from the area.

The system is designed for the addition of .035 grams  $BaCl_2$  per liter to 100 gpm of uranium mine drainage. The mine water will also be settled in two 19,000 ft.<sup>3</sup> ponds with 4 foot depths. Daily operating reports of flow and  $BaCl_2$  additions should be submitted quarterly to this office along with the effluent analysis.

Should the effluent not meet state or federal discharge requirements, you will be required to provide additional treatment necessary. A Federal NPDES permit for this discharge must also be obtained.

Sincerely,

UTAH WATER POLLUTION COMMITTEE



Calvin K. Sudweeks  
Executive Secretary

SRM:een

cc: EPA Salt Lake  
EPA Denver  
Southeast 208  
Oil, Gas & Mining  
Southeastern District Health Dept.